

COMMERCIAL FEEDING STUFFS

Report for 1966

J. GORDON HANNA



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Chapter 428a of the General Statutes of Connecticut, relative to Commercial and Customer-Formula Feeds, became effective January 1, 1966 and conforms in general with the uniform state feed bill recommended by the Association of American Feed Control Officials and the American Feed Manufacturers Association.

It imposes on the Station: 1) all duties connected with the annual registration of feeds offered for sale in the State, 2) the collection of samples for analysis, 3) the analysis of all samples so collected, 4) the preparation and publication annually of pertinent information on the results of the analyses, and 5) the responsibility for rules and regulations for enforcement of the provisions of the law.

The Director of the Station at a public hearing held in November, 1966, presented proposed regulations. The proposed regulations are substantially those recommended by the Association of American Feed Control Officials. They were subsequently submitted through the proper legal channels for approval.

The annual feed report for 1966 is issued in the same form as that for the previous year. The report is divided into three tables. In the first table are listed the number of samples from each manufacturer analyzed for protein, fat, and fiber; the number of deficiencies for each; and the average per cent of claims for each component. Because the fiber claims are maxima, the values for per cent of claims are less than 100 if the guaranties are met. Similar data for vitamin carriers are listed in the second table and for medicants in medicated feeds in the third table.

The deficiencies noted are based on tolerances of 0.75 per cent for protein and fiber, 0.25 per cent for fat, and 20% of guarantee for drugs.

The work represented by this report was performed under the direction of H. J. Fisher, Chief Chemist until August 1, 1966, at which time he retired and became Chemist Emeritus. Analytical work was done by Robert Hancock, Helen Kocaba, Richard Merwin, Werner Mueller, and Sherman Squires. Biological assays were under the direction of Lester Hankin. Microscopic examinations were by Lois Hornig. R. Richard Nichols performed the sampling and Frank Lesco the sample preparations.

COMPLIANCE OF 1966 FEED SAMPLES WITH GUARANTIES

Manufacturer	No. of Samples	No. of guaranties				Samples deficient				Average % of claims		
		Protein	Fat	Fiber	Total	Protein	Fat	Fiber		Protein	Fat	Fiber
Agway, Inc.	64	64	63	63	190	4	4	0		108.0	140.8	66.3
Albers Milling Co.	7	7	7	7	21	0	0	0		103.8	112.5	79.9
Allied Mills, Inc.	3	3	3	3	9	0	0	0		112.0	139.5	64.1
Amburgo Manufacturing Co., Inc.	1	1	1	1	3	0	0	0		108.8	143.5	90.0
American Crystal Sugar Co.	2	2	2	2	6	0	0	0		108.6	268.4	78.2
American Cyanamid Co.	2	2	1	1	4	0	0	0		113.6	170.0	78.3
American Maize-Products Co.	2	2	2	2	6	0	0	0		111.6	225.5	71.4
Bay State Milling Co.	2	2	2	2	6	0	0	0		115.0	124.2	91.1
Beacon Feeds	20	20	20	20	60	0	0	0		105.3	132.2	70.0
Blatchford Calf Meal Co.	1	1	1	1	3	0	0	0		102.0	116.0	38.5
Bloomfield Farmers Exchange	2	2	2	2	6	0	1	0		107.1	106.8	70.2
The Borden Co.	1	1	1	1	3	0	0	0		108.4	155.3	50.3
Brooklawn Grain & Feed Co.	2	2	2	2	6	1	0	0		98.1	131.0	74.5
Brown-Forman Distillers Corp.	2	2	2	2	6	0	1	0		122.9	92.5	80.9
B & W Canning Co., Inc.	1	1	1	1	3	0	0	0		100.0	160.0	73.8
Cargill, Inc.	2	2	2	2	6	0	0	0		114.3	281.6	66.8
Central Connecticut Co-Op Farmers' Association, Inc.	10	10	10	10	30	0	2	0		103.7	106.3	78.9
Central Soya	10	10	10	10	30	0	0	0		106.4	141.1	83.2
Cherry-Taylor Flour Mill, Ltd.	1	1	1	1	3	0	0	0		124.1	129.3	86.5
Citrus Feed Co.	1	1	1	1	3	0	0	0		108.3	225.0	68.0

Clinton Corn Processing Co.	1	1	1	1	3	0	0	0	103.6	246.0	77.6
Connecticut Bi-Products, Inc.	2	2	2	2	6	0	0	0	101.2	174.4	30.3
Consolidated Rendering Co.	1	1	1	1	3	0	0	0	101.6	144.9	94.0
Corn Products Co.	1	1	1	1	3	0	0	0	109.5	250.0	78.8
Country Best Foods, Agway, Inc.	1	1	1	1	3	0	0	0	107.8	100.0	87.9
Dawnwood Farms, Inc.	1	1	1	1	3	0	0	0	110.0	118.2	62.0
DCA Food Industries, Inc.	2	2	2	2	6	0	0	0	114.3	123.2	88.6
Derby Feed Store	5	4	4	4	12	1	0	0	103.2	120.7	87.2
The Dover Milling Co.	1	1	1	1	3	0	0	0	128.6	166.7	61.1
John W. Eshelman & Sons	38	38	38	38	114	0	1	0	109.5	155.0	75.8
Farm Bureau Association	9	9	9	9	27	0	0	0	105.7	112.2	84.0
Farm Bureau Co-Op Association, Inc.	1	1	1	1	3	0	0	0	104.4	226.0	95.8
Farmers' Feed Co.	1	1	1	1	3	0	0	0	103.8	101.5	68.2
Florida Citrus Canners Cooperative	1	1	1	1	3	0	0	0	108.3	172.0	71.9
Foremost Dairies, Inc.	1	1	1	0	2	0	0	-	103.6	230.0	--
Fruen Milling Co.	1	1	1	1	3	0	0	0	108.1	226.0	73.7
Golden Gem Growers, Inc.	1	1	1	1	3	0	0	0	108.3	196.4	87.8
The Great Atlantic & Pacific Tea Co., Inc.	1	1	1	1	3	0	0	0	108.8	133.3	87.6
Great Star Flour Mills, Ltd.	1	1	1	1	3	0	0	0	136.5	107.4	87.6
Hales & Hunter Co.	23	23	23	23	69	1	0	0	107.2	160.4	61.5
Hayward, Inc.	1	1	1	1	3	0	0	0	104.4	130.4	90.9
Hi-Acres Concentrate, Inc.	1	1	1	1	3	0	0	0	108.3	149.6	77.8
Hiram Walker & Sons, Inc.	1	1	1	1	3	0	0	0	114.0	121.3	61.0
H. P. Hood & Sons, Inc.	2	2	2	2	6	0	1	0	110.4	93.6	82.9
E. C. & W. L. Hopkins, Inc.	5	5	5	5	15	1	0	0	107.9	141.9	81.3
Industrial Molasses Corp.	1	1	1	1	3	0	0	0	135.7	133.3	8.6
Illinois Cereal Mills, Inc.	1	1	1	1	3	0	0	0	110.0	115.2	71.7
International Milling Co., Inc.	1	1	1	1	3	0	0	0	123.2	128.3	84.4

Manufacturer	No. of Samples	No. of guaranties			Samples deficient			Average % of claims			
		Protein	Fat	Fiber	Total	Protein	Fat	Fiber	Protein	Fat	Fiber
I. S. Joseph Co., Inc.	1	1	1	1	3	0	0	0	139.3	333.3	84.7
Kellogg Co.	1	1	1	1	3	0	0	0	110.0	104.0	58.6
Kellogg Co. of Canada, Ltd.	1	1	1	1	3	0	0	0	115.0	118.8	83.8
Keystone Dehydrators	1	1	1	1	3	0	0	0	107.4	150.0	88.6
K & L Feed Corporation	5	0	0	0	0	-	-	-	--	--	--
Knappen Milling Co.	1	1	1	1	3	0	0	0	120.8	111.4	70.4
Kraft Foods	2	2	2	2	6	0	0	0	108.3	162.7	77.6
Krause Milling Co.	1	1	1	1	3	0	0	0	117.5	165.6	71.8
Kuder Pulp Sales Co.	1	1	1	1	3	0	0	0	104.2	127.6	74.1
Libner Grain Co., Inc.	1	1	1	1	3	0	0	0	107.1	107.1	91.4
Lockwood Nutrition Service, Inc.	1	1	1	1	3	0	0	0	104.2	110.7	86.0
Machnicki's Grain Store	2	2	2	2	6	0	1	0	107.2	94.5	87.9
Maple Leaf Mills, Ltd.	1	1	1	1	3	0	0	0	110.7	133.3	73.0
Maxon Mills, Inc.	3	3	3	3	9	0	3	0	117.5	56.8	66.5
Mayflower Mills	2	2	2	2	6	0	0	0	115.4	141.3	68.4
McCabe Grain Co., Ltd.	1	1	1	1	3	0	0	0	115.9	131.2	73.4
The Mennel Milling Co.	1	1	1	1	3	0	0	0	123.1	159.3	82.7
Milk Specialties, Inc.	2	2	2	2	6	0	0	0	102.2	104.2	59.7
Miner-Hillard Milling Co.	1	1	1	1	3	0	0	0	112.5	130.0	72.2
Minnesota Linseed Oil Co.	1	1	1	1	3	0	0	0	100.7	290.0	69.2
Minute Maid Co.	1	1	1	1	3	0	0	0	91.7	181.2	70.7
Mowat Wilson & Co.	1	1	1	1	3	0	0	0	117.9	263.3	83.2
National Biscuit Co.	1	1	1	1	3	0	0	0	121.2	197.3	87.2
National Distillers Products Co.	3	2	2	2	6	0	1	0	115.0	109.3	100.1

Nopco Chemical Co.	2	2	2	2	2	6	0	0	0	994.7	729.5	56.7
Northern Ohio Supply Co.	1	1	0	1	2	0	0	-	0	103.1	--	70.5
Ogden Grain Co.	31	31	29	29	89	0	3	1	0	104.7	111.9	84.6
The Ogilvie Flour Mills Co., Ltd.	1	1	1	1	3	0	0	0	0	107.8	125.0	85.6
Peter Hand Foundation, Inc.	1	1	1	1	3	0	0	0	0	111.5	152.0	89.0
Parrish & Heimbecker, Ltd.	1	1	1	1	3	0	0	0	0	125.0	151.7	92.3
Pierce Grain Corp.	2	1	1	1	3	0	0	0	0	183.3	171.0	81.0
Point Judith Fishermans Co-Op Association, Inc.	1	1	1	1	3	0	0	0	0	113.6	125.2	59.0
Pittsburg Brewing Co.	2	2	2	2	6	0	0	0	0	111.8	105.8	65.6
Publicker Industries, Inc.	1	1	1	1	3	0	0	0	0	102.0	118.9	71.2
The Quaker Oats Co. of Canada, Ltd.	2	2	2	2	6	0	0	0	0	138.1	142.3	75.1
Ralston Purina Co.	65	65	65	65	195	2	0	0	0	107.0	142.4	65.0
Reading Milling Co., Inc.	2	2	2	2	6	0	0	1	0	107.8	121.5	100.7
Robichand & Co., Ltd.	1	1	1	1	3	0	0	0	0	102.9	258.3	21.0
Rytman Feed Co.	2	2	2	2	6	0	0	0	0	107.7	122.7	61.4
Schenley Distillers, Inc.	1	1	1	1	3	0	0	0	0	116.7	191.6	54.1
Joseph E. Seagram & Sons, Inc.	1	1	1	1	3	0	0	0	0	120.6	107.0	82.9
Seymour Grain & Coal Co.	4	4	4	4	12	1	2	0	0	104.7	93.9	71.8
The Sherwin-Williams Co.	1	1	1	1	3	1	0	0	0	96.4	800.0	69.5
Sherwood Feed Mills, Inc.	3	3	3	3	9	1	1	1	1	94.9	102.4	92.3
Société de Pêche et de Congélation	1	1	1	1	3	0	0	0	0	104.6	130.0	14.5
Solar Nitrogen Chemical, Inc.	1	1	0	0	1	1	-	-	-	98.9	--	--
Southern Cotton Oil Division	1	1	1	1	3	0	0	0	0	100.0	100.0	85.4
A. E. Staley Mfg. Co.	2	2	2	2	6	0	0	0	0	105.1	431.5	58.7
F. W. Stock & Sons	1	1	1	1	3	0	0	0	0	123.1	169.1	84.7
Suni-Citrus Products Co.	1	1	1	1	3	0	0	0	0	104.2	180.0	82.6
Sunny Slope Farms, Inc.	1	1	1	1	3	0	0	0	0	128.0	219.0	65.8
Swift & Co.	1	1	1	1	3	0	0	0	0	103.5	200.0	81.7
Tropicana Products, Inc.	1	1	1	1	3	0	0	0	0	104.2	128.5	87.3

No. of guaranties					Samples deficient			Average % of claims			
No. of Samples	Protein		Fiber		Total	Protein		Fiber		Average % of claims	
	Fat	Fiber	Fat	Fiber		Protein	Fiber				
3	3	3	3	3	9	0	1	0	118.4	103.8	81.1
17	15	15	15	15	45	0	0	0	111.1	136.8	63.8
1	1	1	1	1	3	0	1	0	124.0	80.2	59.3
7	7	7	7	7	21	0	0	0	111.2	106.9	77.2
1	1	1	1	1	3	0	0	0	100.0	101.5	78.6
28	28	27	27	27	82	0	1	0	106.9	122.6	87.2
1	1	1	1	1	3	0	0	0	124.1	142.9	55.2
1	1	1	1	1	3	0	0	0	108.3	135.6	68.4
39	39	39	39	39	117	0	1	1	112.9	132.8	77.7
11	11	11	11	11	33	0	0	0	113.2	149.5	82.2
522					1516	14	25	4			

Guaranties deficient: 2.8%



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VITAMIN CARRIERS

Manufacturer	No. of Samples	No. of Guaranties			
		Vitamin D	Panto- thenic acid	Niacin	Ribo- flavin
Agway, Inc. ¹	1	0	0	1	0
Commercial Solvents Corp.	13	8	13	10	13
Dawes Laboratories, Inc.	2	2	0	0	0
Drew Chemical Corp.	1	1	0	0	0
Hartz Mountain Products Corp. ²	1	0	1	1	1
Hoffman La Roche, Inc.	7	5	7	7	7
New England Feed Co. ³	2	2	1	1	2
Nopco Chemical Co.	1	1	1	1	1
Chas. Pfizer & Co., Inc. ⁴	5	4	5	5	5
Whitmoyer Laboratories, Inc.	8	8	2	2	2
Totals	41	31	30	28	31

¹ Vitamin B₁₂: 6 guaranties, no deficiencies; 92% of claim (ave.)

² Thiamine: 1 guaranty, 1 deficiency; 70% of claim.

³ Vitamin B₁₂: 2 guaranties, no deficiencies; 95% of claim (ave.)

⁴ Vitamin B₁₂: 2 guaranties, no deficiencies; 87% of claim (ave.)

VITAMIN CARRIERS

Total no. of guaranties	<u>Samples deficient</u>				<u>Average % of claims</u>		
	Vitamin D	Panto- thenic acid	Niacin	Ribo- flavin	Panto- thenic acid	Niacin	Ribo- flavin
1	-	-	-	-	--	93	---
44	0	4	3	1	83	95	93
2	0	-	-	-	--	--	---
1	0	-	-	-	--	--	---
3	-	0	1	0	81	72	103
26	0	0	1	2	99	106	95
6	0	1	0	0	61	92	87
4	0	0	0	0	94	84	91
19	0	0	0	0	101	102	100
14	0	1	1	0	83	87	88
<u>120</u>	0	6	6	3			

Guaranties deficient: 12.5%

MEDICATED FEED MEDICANTS

Manufacturer	No. of Samples	Medicant	No. of Guaranties	No. of deficiencies	Average % of claims
Agway, Inc.	24	Arsanilic acid	17	1	106
		Chlortetracycline hydrochloride	3	1	89
		Furazolidone	1	0	84
		Oxytetracycline hydrochloride	2	0	95
Albers Milling Co.	3	Sulfaquinoxaline	1	0	92
		Furazolidone	1	0	98
		Oxytetracycline hydrochloride	2	0	91
		Sulfaquinoxaline	1	0	97
American Cyanamide Co.	1	Chlortetracycline hydrochloride	1	0	84
		Arsanilic acid	1	0	100
Beacon Feeds	2	Chlortetracycline hydrochloride	1	0	93
		Chlortetracycline hydrochloride	1	0	95
Blatchford Calf Meal Co.	3	Chlortetracycline hydrochloride	1	0	90
		Furazolidone	2	0	87
		Arsanilic acid	1	0	118
Central Conn. Co-Op Farmers' Association, Inc.	2	Furazolidone	1	0	100
		Sulfaquinoxaline	1	0	104
		Sulfaquinoxaline	1	1	0
Derby Feed Store	2	Furazolidone	1	0	102
		Oxytetracycline hydrochloride	1	0	91
John W. Eshelman & Sons	4	Arsanilic acid	3	0	94
		Chlortetracycline hydrochloride	1	0	91
Hales & Hunter Co.	1	Arsanilic acid	3	0	94
		Chlortetracycline hydrochloride	1	0	91

Milk Specialties, Inc.	2	Chlortetracycline hydrochloride	1	0	82
		Oxytetracycline hydrochloride	1	0	84
Ogden Grain Co.	5	Arsanilic acid	1	0	119
		Chlortetracycline hydrochloride	2	0	93
		Oxytetracycline hydrochloride	1	0	91
		Sulfaquinoxaline	1	0	93
Ralston Purina Co.	5	Chlortetracycline hydrochloride	3	0	90
		Furazolidone	1	0	103
		Oxytetracycline hydrochloride	1	0	94
United Cooperative Farmers, Inc.	2	Chlortetracycline hydrochloride	1	0	80
		Furazolidone	1	0	91
William S. Warren & Sons	1	Chlortetracycline hydrochloride	1	0	89
H. K. Webster Co.	2	Arsanilic acid	1	0	107
		Chlortetracycline hydrochloride	1	0	90
Wirthmore Feeds, Inc.	5	Arsanilic acid	2	0	111
		Furazolidone	1	0	97
		Oxytetracycline hydrochloride	1	0	100
		Sulfaquinoxaline	1	0	101
Wolf Savitsky & Sons, Inc.	1	Arsanilic acid	1	0	118
		Sulfaquinoxaline	1	0	85
	<u>66</u>		<u>69</u>	<u>3</u>	
	Totals				

% of guaranties deficient: 4.4

THE CONNECTICUT
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